







PRELIMINARY REPORT
INDUSTRY SERIES

1982

Census of
Construction Industries

CC82-I-21(P)

Issued April 1984

STRUCTURAL STEEL ERECTION
SPECIAL TRADE CONTRACTORS
(Industry 1791)

During 1982, the establishments with paid employees classified in this industry accounted for \$3.7 billion in total business receipts. Of this amount, \$3.6 billion were receipts for construction work. These establishments paid out \$989.9 million for materials, components, supplies, and fuels and \$312.4 million for construction work subcontracted to others. This industry had total average employment of 63,086 employees with total payroll of \$1.3 billion. Value added for 1982 was \$2.4 billion.

Establishments classified in this industry are primarily engaged in the erection of structural steel, the placing of concrete reinforcement and structural iron work, and the erection of metal storage tanks. For specific examples, refer to the 1972 Standard Industrial Classification (SIC) Manual, and its 1977 supplement, published by the Office of Management and Budget, Executive Office of the President.

For this census, a "construction establishment" was defined as a relatively permanent office or other place of business at which or from which the usual business activities related to construction were conducted. A separate census report was required from each establishment but not from each construction site. Instead, the data for work at each site were included in the report from the appropriate office or branch office. Foreign construction activities were not included in this census.

The 1982 estimates for establishments with paid employees in all of the construction industries are based on reports from a probability sample of approximately 172,000 establishments selected from a universe of about 498,000 construction establishments with payroll. The data obtained from the sample were weighted to represent all construction establishments with payroll. Complete descriptions of the sampling and estimating procedures will be included in the final reports.

Since the data in this report are based on a sample, they are subject to sampling variability and may be expected to differ from results which would have been obtained if a complete census had been taken using the same questionnaires and procedures. The relative standard error shown in the tables is a measure of sampling variability, i.e., the variation that might occur by chance because only a sample of the population was surveyed.

All data shown are based on current dollars for the years specified and have not been adjusted for inflation.

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Table 1. General Statistics for Establishments With Payroll by States: 1982 and 1977

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see page 4]

| Location of establishment | 1982 | | | | | | | | |
|---------------------------|--------------------------|-------------|----------------------|---------------|----------------------|---------------------------------------|-----------------------------|----------------------------|--|
| | Number of establishments | Employees** | | Payroll | | Construction worker hours (thousands) | Total construction receipts | Net construction receipts† | |
| | | All | Construction workers | All employees | Construction workers | | | | |
| A | B | C | D | E | F | G | H | | |
| United States | 3 692 | 63 086 | 53 848 | 1 340 588 | 1 097 047 | 87 067 | 3 617 661 | 3 305 235 | |
| Alabama | 75 | 1 314 | 1 145 | 18 351 | 15 206 | 2 044 | 53 199 | 46 472 | |
| Alaska | 14 | (S) | (S) | (S) | (S) | (S) | (S) | (S) | |
| Arizona | 75 | 1 193 | 1 011 | 25 775 | 20 748 | 1 654 | 72 687 | 68 626 | |
| Arkansas | 26 | 358 | 304 | 6 405 | 5 023 | 521 | 18 930 | 18 322 | |
| California | 367 | 7 011 | 5 632 | 159 258 | 122 848 | 8 514 | 518 556 | 484 845 | |
| Colorado | 64 | 820 | 701 | 16 587 | 13 614 | 1 207 | 45 199 | 42 185 | |
| Connecticut | 39 | 867 | 674 | 21 104 | 15 951 | 1 193 | 82 674 | 71 180 | |
| Delaware | 6 | 150 | 129 | 4 460 | 3 784 | 227 | (D) | 8 467 | |
| District of Columbia | 1 | (D) | (D) | (D) | (D) | (D) | (D) | (D) | |
| Florida | 246 | 3 581 | 3 078 | 63 677 | 52 392 | 5 000 | 167 130 | 154 467 | |
| Georgia | 87 | 1 237 | 1 099 | 24 924 | 20 677 | 1 916 | 55 566 | 53 426 | |
| Hawaii | 23 | 675 | 590 | 16 754 | 14 476 | 978 | 48 793 | 47 250 | |
| Idaho | 16 | 111 | 99 | 2 164 | 1 797 | 154 | 7 077 | 5 668 | |
| Illinois | 146 | 2 971 | 2 459 | 74 665 | 62 165 | 3 735 | 192 970 | 171 506 | |
| Indiana | 66 | 996 | 832 | 23 253 | 18 576 | 1 303 | 52 845 | 48 564 | |
| Iowa | 56 | 382 | 343 | 6 170 | 5 377 | 568 | 21 128 | 19 329 | |
| Kansas | 36 | 465 | 409 | 7 719 | 6 387 | 648 | 23 276 | 21 747 | |
| Kentucky | 39 | 592 | 483 | 11 653 | 9 692 | 852 | 30 876 | 29 275 | |
| Louisiana | 101 | 1 742 | 1 543 | 34 190 | 28 727 | 2 649 | 83 295 | 76 170 | |
| Maine | *11 | *65 | *61 | 721 | *691 | *96 | 1 677 | 1 603 | |
| Maryland | 58 | 1 219 | 1 095 | 23 580 | 20 141 | 1 900 | 48 779 | 46 475 | |
| Massachusetts | 73 | 1 020 | 920 | 17 068 | 14 655 | 1 553 | 35 401 | 34 087 | |
| Michigan | 106 | 2 667 | 2 325 | 52 570 | 40 926 | 3 170 | 127 081 | 111 835 | |
| Minnesota | 48 | 1 107 | 1 001 | 26 145 | 23 316 | 1 571 | 48 318 | 46 582 | |
| Mississippi | 39 | 821 | 692 | 16 634 | 13 204 | 1 181 | (D) | 23 555 | |
| Missouri | 74 | (S) | (S) | (S) | (S) | (S) | (S) | (S) | |
| Montana | *13 | 160 | 152 | (D) | (D) | 247 | (D) | (D) | |
| Nebraska | 36 | 177 | 157 | 2 428 | 2 167 | 251 | 7 801 | 7 743 | |
| Nevada | 27 | 628 | 500 | 13 919 | 10 234 | 750 | 38 387 | 35 179 | |
| New Hampshire | 8 | (D) | (D) | (D) | (D) | (D) | (D) | (D) | |
| New Jersey | 145 | 2 266 | 1 951 | 49 546 | 41 045 | 3 230 | 147 514 | 137 492 | |
| New Mexico | 13 | 237 | 209 | 4 822 | 4 191 | 350 | 11 395 | 9 804 | |
| New York | 191 | 2 486 | 2 101 | 59 125 | 49 645 | 3 745 | 173 184 | 152 877 | |
| North Carolina | 89 | 819 | 738 | 11 189 | 9 541 | 1 265 | 28 264 | 25 406 | |
| North Dakota | 31 | 159 | 120 | 2 680 | 2 054 | 213 | 12 472 | 10 663 | |
| Ohio | 139 | 2 383 | 2 019 | 57 967 | 48 571 | 3 316 | 142 297 | 129 707 | |
| Oklahoma | 84 | 1 080 | 929 | 21 232 | 16 774 | 1 533 | 59 919 | 54 098 | |
| Oregon | 29 | (S) | (S) | (S) | (S) | (S) | (S) | (S) | |
| Pennsylvania | 102 | 4 633 | 4 121 | 111 361 | 95 322 | 6 116 | 312 773 | 257 590 | |
| Rhode Island | 17 | 241 | 213 | 4 571 | 3 956 | 338 | 9 078 | 8 589 | |
| South Carolina | 72 | 593 | 517 | 7 485 | 5 884 | 907 | 24 660 | 22 993 | |
| South Dakota | 5 | (S) | (S) | (S) | (S) | (S) | (S) | (S) | |
| Tennessee | 88 | 1 371 | 1 194 | 22 229 | 17 776 | 1 842 | 64 308 | 58 913 | |
| Texas | 425 | 7 421 | 6 499 | 147 237 | 122 115 | 10 740 | 396 194 | 379 278 | |
| Utah | 51 | 434 | 367 | 9 213 | 7 380 | 618 | 39 341 | 37 227 | |
| Vermont | 1 | (D) | (D) | (D) | (D) | (D) | (D) | (D) | |
| Virginia | 69 | 1 098 | 915 | 23 113 | 19 079 | 1 621 | 74 049 | 70 313 | |
| Washington | 64 | 772 | 632 | 21 625 | 16 902 | 999 | 46 172 | 44 554 | |
| West Virginia | 23 | 374 | 329 | 7 515 | 6 578 | 397 | 19 311 | (D) | |
| Wisconsin | 54 | 502 | 406 | 10 501 | 8 452 | 657 | 24 599 | 22 858 | |
| Wyoming | 16 | 90 | 82 | 1 556 | 1 354 | *156 | *6 858 | 6 308 | |

| Value added†† | 1982-Con. | | | | | 1977 | | | Relative standard error of estimate (percent) for column— | | | Location of establishment |
|---------------------------|---|--|--|---------------------------------------|--|-----------------|-----------------------------|-----------------|---|-----|-------|---------------------------|
| | Payments for materials, components, supplies, and fuels | Payments for construction work subcontracted to others | Rental payments for machinery, equipment, and structures | Capital expenditures, other than land | End-of-year gross book value of depreciable assets | All employees** | Total construction receipts | Value added†† | | | | |
| I | J | K | L | M | N | O | P | Q | B | H | M | |
| 2 424 996 | 989 928 | 312 426 | 83 897 | 69 952 | 708 004 | 47 166 | 1 803 301 | 1 184 420 | (W) | (W) | 1 | U.S. |
| 35 026 (S) | 13 379 (S) | 6 727 (S) | 1 297 (S) | 3 156 (S) | 13 048 (S) | 1 569 187 | 51 177 7 491 | 30 419 5 930 | 6 | 4 | 5 | Ala. |
| 46 275 11 651 | 24 119 6 891 | 4 060 608 | 1 213 288 | 1 787 399 | 14 582 4 775 | 466 449 | 27 243 15 200 | 12 907 8 148 | - | - | 6 | Ala. |
| 321 159 | 174 626 | 33 711 | 10 132 | 8 586 | 70 268 | 2 632 | 151 912 | 96 779 | 1 | 1 | 2 | Ala. |
| 31 347 | 11 707 | 3 014 | 1 571 | 763 | 7 772 | 555 | 21 852 | 14 703 | 9 | 5 | 4 | Colo. |
| 32 715 (D) | 39 242 (D) | 11 493 (D) | 853 (D) | 1 067 (D) | 12 426 (D) | 282 | (D) | (D) | 5 | 4 | 25 | Conn. |
| 108 045 | 49 035 | 12 662 | 3 977 | 3 171 | 28 682 | 2 154 | 61 439 | 34 107 | - | - | 3 | Del. |
| 43 934 34 071 2 210 | 13 244 (D) | 2 140 1 543 | 1 267 1 438 | 3 071 2 056 | 19 991 11 071 | 1 276 339 | 29 087 14 621 | 24 989 9 383 | 6 | 7 | 5 | Ga. |
| 138 010 38 925 | 39 981 11 925 | 21 464 4 280 | 2 874 1 564 | 2 767 845 | 33 554 11 145 | 2 116 1 075 | 90 867 39 169 | 2 408 29 366 | 26 | 28 | 13 | Hawaii |
| 12 770 | 6 953 | 1 799 | 538 | 288 | 4 996 | 362 | 11 830 | 8 199 | 19 | 14 | 13 | Idaho |
| 14 787 | 7 575 | 1 529 | 834 | 142 | 3 393 | 297 | 11 295 | 7 560 | 17 | 8 | 3 | Ill. |
| 21 306 | 8 945 | 1 601 | 556 | 572 | 1 325 | 641 | 19 485 | 12 348 | 12 | 11 | 4 | Ky. |
| 53 971 | 24 596 *412 | 7 125 *74 | 1 874 15 | 1 701 *204 | 25 164 *885 | 1 635 (D) | 59 722 (D) | 44 780 800 | 5 | 4 | 5 | La. |
| 37 354 | 9 889 | 2 304 | 757 | 489 | 14 003 | 720 | 23 805 | 18 225 | 8 | 4 | 11 | Maine |
| 26 211 | 8 779 | 1 314 | 1 356 | 755 | 7 910 | 720 | 18 742 | 12 922 | 12 | 10 | 16 | Md. |
| 84 852 | 29 197 | 15 246 | 4 866 | 2 956 | 24 029 | 1 616 | 74 362 | 46 908 | 2 | 3 | 3 | Mass. |
| 39 547 | 7 482 | 1 736 | 1 289 | 829 | 10 500 | 1 015 | 30 774 | 25 489 | 5 | 5 | 3 | Mich. |
| 19 096 | (D) | (D) | 511 | 577 | 5 690 | (D) | 5 354 | 3 812 | 7 | 9 | 8 | Minn. |
| (S) 4 812 | (S) *3 072 | (S) *58 | (S) 1 261 | (S) 135 | (S) *388 | 885 *96 | 25 426 *3 474 | 15 549 1 554 | - | - | - | Mo. |
| 26 508 | (D) | 3 208 | 975 | 720 | 2 325 | (D) | (D) | (D) | 34 | 37 | 48 | Mont. |
| (D) | (D) | (D) | 123 | 7 212 | 167 | 6 154 | 5 111 | 10 | 7 | 8 | Nebr. | |
| 107 521 | 32 718 | 10 022 | 4 069 | 1 918 | 18 795 | 2 275 | 63 039 | 37 664 | 4 | 3 | 4 | N.J. |
| 8 357 | (D) | 1 591 | (D) | (D) | 3 186 | (D) | (D) | (D) | 7 | 8 | - | N. Mex. |
| 121 584 | 35 549 | 20 307 | 3 692 | 2 286 | 25 848 | 1 760 | 65 541 | 38 390 | 3 | 3 | 4 | N.Y. |
| 19 481 | 6 683 | 2 857 | 536 | 416 | 5 807 | 639 | 17 975 | 10 679 | 11 | 12 | 19 | N.C. |
| 6 342 | 4 453 | 1 809 | 283 | 199 | 3 688 | 116 | 4 970 | 3 725 | 26 | 30 | 30 | N. Dak. |
| 78 904 | 53 266 | 12 590 | 4 581 | 2 505 | 32 534 | 2 313 | 99 076 | 64 220 | 3 | 2 | 2 | Ohio |
| 40 668 | 16 236 | 5 821 | 941 | 3 025 | 19 195 | 729 | 25 239 | 16 445 | 8 | 5 | 13 | Okla. |
| (S) | (S) | (S) | (S) | (S) | (S) | 253 | 11 340 | 5 635 | - | - | - | Oreg. |
| 208 683 | 51 517 | 55 183 | 6 726 | 1 872 | 59 908 | 7 742 | 366 002 | 217 904 | 2 | 1 | 1 | Pa. |
| 7 278 | (D) | 488 | 323 | 115 | 1 456 | 134 | 3 724 | 3 375 | 12 | 10 | 7 | R.I. |
| 17 414 | 6 601 | 1 667 | 829 | 1 006 | 9 064 | 926 | 26 359 | (D) | 20 | 12 | 21 | S.C. |
| 58 042 | 19 870 | 5 395 | 1 515 | 1 167 | 14 259 | (S) | 1 562 | 1 232 | - | - | - | S. Dak. |
| 285 433 | 103 935 | 16 916 | 10 114 | 9 325 | 84 204 | 1 118 | 33 422 | 26 933 | 4 | 5 | 2 | Tenn. |
| 24 906 | 12 729 | 2 114 | 576 | 752 | 3 726 | 3 726 | 107 469 | 77 511 | 3 | 2 | 2 | Tex. |
| (D) | (D) | (D) | (D) | (D) | (D) | 351 | 14 623 | 8 980 | 7 | 2 | 6 | Utah |
| 50 948 | 24 851 | 3 736 | 1 849 | 1 930 | 11 712 | 1 032 | 31 981 | 23 876 | - | - | - | Vt. |
| 36 059 | 9 521 | 1 618 | 1 474 | 851 | 7 715 | 777 | 30 373 | 23 655 | 8 | 6 | 28 | Va. |
| 11 320 | 6 999 | (D) | 402 | 375 | 4 092 | 307 | 15 569 | 9 034 | 5 | 5 | 3 | Wash. |
| 16 382 | 7 452 | 1 741 | 475 | 796 | 7 486 | 338 | 10 255 | 7 358 | 7 | 7 | 12 | W. Va. |
| 3 925 | *2 445 | *550 | *226 | 61 | 2 138 | (D) | 3 745 | 2 023 | 38 | 39 | 39 | Wyo. |

**Table 2. Construction Receipts for Establishments With Payroll by Type of Construction:
1982 and 1977**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see page 4]

| Item | 1982 | 1977 | Relative standard error of estimate (percent) | |
|--|------------------|------------------|---|----------|
| | | | 1982 | 1977 |
| Total construction receipts | 3 617 661 | 1 803 301 | 1 | 1 |
| Building construction | 2 420 557 | 1 165 977 | 1 | 1 |
| Single-family houses | 59 404 | 22 865 | 11 | 10 |
| Apartment buildings with two or more apartments | 70 867 | 38 589 | 3 | 7 |
| Other residential buildings | 78 462 | 24 877 | 3 | 2 |
| Industrial buildings and warehouses | 973 761 | 674 457 | 1 | 1 |
| Office and bank buildings | 750 498 | 127 849 | 1 | 1 |
| Farm buildings | 39 820 | 20 964 | 11 | 13 |
| Stores, restaurants, public garages, and automobile service stations | 123 110 | 68 596 | 2 | 4 |
| Religious buildings | 28 127 | 19 677 | 2 | 2 |
| Educational buildings | 90 382 | 75 165 | 3 | 2 |
| Hospitals and institutional buildings | 117 142 | 67 236 | 2 | 1 |
| Amusement, social, and recreational buildings | 38 688 | 13 665 | 3 | 1 |
| Other nonresidential buildings | 50 296 | 12 035 | 3 | 9 |
| Nonbuilding construction | 730 037 | 538 585 | 1 | 1 |
| Highways, streets, and related facilities | 110 014 | 16 857 | 2 | 6 |
| Bridges and elevated highways | 17 596 | 82 089 | 5 | 1 |
| Power and communication transmission lines, towers, and related facilities | 24 842 | 16 685 | 8 | 6 |
| Blast furnaces, petroleum refineries, and chemical complexes | 62 391 | 76 315 | 4 | 2 |
| Power plants | 199 113 | 107 802 | (W) | (W) |
| Sewage treatment and water treatment plants | 69 149 | 40 818 | 1 | 3 |
| Other nonbuilding construction | 246 932 | 198 019 | 2 | 2 |
| Construction work, n.s.k. | 467 067 | 98 761 | 2 | 3 |

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The following abbreviations and symbols are used in the tables in this publication:

- * Sampling error exceeds 40 percent.
- ** All employees (average) is the sum of construction workers during pay period including 12th of March, May, August, and November divided by 4, added to all others, March 12th.
- Represents zero.
- † Represents total construction receipts less payments for construction work subcontracted to others.
- †† Represents all business receipts less payments for construction work subcontracted to others, and payments for materials, components, supplies, and fuels. In SIC's 1531 and 6552, land receipts are also subtracted from "all business receipts."
- (D) Withheld to avoid disclosing data for individual companies; data are included in higher level totals.
- (NA) Not available.
- (S) Withheld because estimate did not meet publication standards on the basis of either the response rate, associated standard error, or a consistency review.
- (W) Greater than zero but less than 1 percent.
- (X) Not applicable.
- n.s.k. Not specified by kind.



